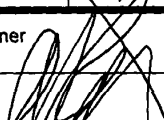
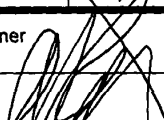
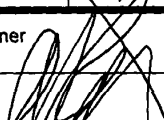


| <b>UTILITY<br/>PATENT APPLICATION<br/>TRANSMITTAL</b><br><small>(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))</small>  |   | Attorney Docket No. <b>MTS-3455US</b>   |                |                   |               |                                   |        |           |   |      |                |      |              |       |    |         |     |           |                |  |  |     |                |
|---|---|---|----------------|-------------------|---------------|-----------------------------------|--------|-----------|---|------|----------------|------|--------------|-------|----|---------|-----|-----------|----------------|--|--|-----|----------------|
| First Inventor <b>Hideo Kanzawa et al.</b>  |   | Title <b>METHOD OF MANUFACTURING CIRCUIT BOARD AND COMMUNICATION APPLIANCE</b>  |                |                   |               |                                   |        |           |   |      |                |      |              |       |    |         |     |           |                |  |  |     |                |
| Express Mail Label No. <b>EV 325926473 US</b>   |   | Commissioner for Patents<br>Mail Stop Patent Application<br>P.O. Box 1450<br>Alexandria, VA 22313-1450  |                |                   |               |                                   |        |           |   |      |                |      |              |       |    |         |     |           |                |  |  |     |                |
| <b>APPLICATION ELEMENTS</b><br><small>See MPEP chapter 600 concerning utility patent application contents.</small>  |   | <b>ADDRESS TO:</b>  |                |                   |               |                                   |        |           |   |      |                |      |              |       |    |         |     |           |                |  |  |     |                |
| <div>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17)<br/><small>(Submit an original and a duplicate for fee processing)</small></div> <div>2. <input type="checkbox"/> Applicant claims small entity status.<br/>See 37 CFR 1.27.</div> <div>3. <input checked="" type="checkbox"/> Specification <span style="float: right;">[Total Pages <b>24</b>]</span><br/><small>(preferred arrangement set forth below)</small><ul style="list-style-type: none"><li>- Descriptive title of the invention</li><li>- Cross References to Related Applications</li><li>- Statement Regarding Fed sponsored R &amp; D</li><li>- Reference to sequence listing, a table, or a computer program listing appendix</li><li>- Background of the invention</li><li>- Brief Summary of the invention</li><li>- Brief Description of the Drawings (if filed)</li><li>- Detailed Description</li><li>- Claim(s)</li><li>- Abstract of the Disclosure</li></ul></div> <div>4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) <span style="float: right;">[Total Sheets <b>9</b>]</span></div> <div>5. Oath or Declaration <span style="float: right;">[Total Pages <b>3</b>]</span><ul style="list-style-type: none"><li>a. <input type="checkbox"/> Newly executed (original or copy)</li><li>b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63 (d))<br/><small>(for a continuation/divisional with Box 18 completed)</small></li><li>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b><br/><small>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</small></li><li>c. <input checked="" type="checkbox"/> Unexecuted Declaration</li></ul></div> <div>6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76</div> |   | <div>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)</div> <div>8. Nucleotide and/or Amino Acid Sequence Submission<br/><small>(if applicable, all necessary)</small><ul style="list-style-type: none"><li>a. <input type="checkbox"/> Computer Readable Form (CRF)</li><li>b. Specification Sequence Listing on:<ul style="list-style-type: none"><li>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</li><li>ii. <input type="checkbox"/> paper</li></ul></li><li>c. <input type="checkbox"/> Statements verifying identity of above copies</li></ul></div> <div style="border: 1px solid black; padding: 5px;"><b>ACCOMPANYING APPLICATIONS PARTS</b><div>9. <input type="checkbox"/> Assignment Papers (cover sheet &amp; document(s))</div><div>10. <input type="checkbox"/> 37 C.F.R. §3.73(b) Statement <span style="float: right;"><input type="checkbox"/> Power of Attorney</span><br/><small>(when there is an assignee)</small></div><div>11. <input type="checkbox"/> English Translation Document (if applicable)</div><div>12. <input checked="" type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <span style="float: right;"><input checked="" type="checkbox"/> Copies of IDS Citations</span></div><div>13. <input checked="" type="checkbox"/> Preliminary Amendment</div><div>14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503)<br/><small>(Should be specifically itemized)</small></div><div>15. <input checked="" type="checkbox"/> Certified Copy of Priority Document(s)<br/><small>(if foreign priority is claimed)</small></div><div>16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.</div><div>17. <input type="checkbox"/> Other: _____</div></div> |                |                   |               |                                   |        |           |   |      |                |      |              |       |    |         |     |           |                |  |  |     |                |
| <b>18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:</b> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP)</div><div>of prior application No: _____ / _____</div></div> <div style="display: flex; justify-content: space-between;"><div>Prior application information Examiner _____</div><div>Group / Art Unit: _____</div></div> <p><b>For CONTINUATION or DIVISIONAL APPS only:</b> The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation <u>can only</u> be relied upon when a portion has been inadvertently omitted from the submitted application parts.</p>  |   |   |                |                   |               |                                   |        |           |   |      |                |      |              |       |    |         |     |           |                |  |  |     |                |
| <b>19. CORRESPONDENCE ADDRESS</b>   |   |   |                |                   |               |                                   |        |           |   |      |                |      |              |       |    |         |     |           |                |  |  |     |                |
| <div><input checked="" type="checkbox"/> Insert Customer Number 23122</div> <div style="text-align: right;"><input type="checkbox"/> Correspondence address below</div>   |   |   |                |                   |               |                                   |        |           |   |      |                |      |              |       |    |         |     |           |                |  |  |     |                |
| <table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 15%;">Name</td><td colspan="3">RatnerPrestia</td></tr><tr><td>Address</td><td colspan="3">P.O. Box 980</td></tr><tr><td>City</td><td>Valley Forge</td><td>State</td><td>PA</td></tr><tr><td>Country</td><td>USA</td><td>Telephone</td><td>(610) 407-0700</td></tr><tr><td></td><td></td><td>Fax</td><td>(610) 407-0701</td></tr></table>  |   |   |                | Name              | RatnerPrestia |                                   |        | Address   | P.O. Box 980  |      |                | City | Valley Forge | State | PA | Country | USA | Telephone | (610) 407-0700 |  |  | Fax | (610) 407-0701 |
| Name  | RatnerPrestia   |   |                |                   |               |                                   |        |           |   |      |                |      |              |       |    |         |     |           |                |  |  |     |                |
| Address   | P.O. Box 980  |   |                |                   |               |                                   |        |           |   |      |                |      |              |       |    |         |     |           |                |  |  |     |                |
| City  | Valley Forge  | State   | PA             |                   |               |                                   |        |           |   |      |                |      |              |       |    |         |     |           |                |  |  |     |                |
| Country   | USA   | Telephone   | (610) 407-0700 |                   |               |                                   |        |           |   |      |                |      |              |       |    |         |     |           |                |  |  |     |                |
|   |   | Fax   | (610) 407-0701 |                   |               |                                   |        |           |   |      |                |      |              |       |    |         |     |           |                |  |  |     |                |
| <table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 30%;">Name (Print/Type)</td><td>Allan Ratner</td><td style="width: 30%;">Registration No. (Attorney/Agent)</td><td>19,717</td></tr><tr><td>Signature</td><td></td><td>Date</td><td>August 4, 2003</td></tr></table>  |   |   |                | Name (Print/Type) | Allan Ratner  | Registration No. (Attorney/Agent) | 19,717 | Signature |  | Date | August 4, 2003 |      |              |       |    |         |     |           |                |  |  |     |                |
| Name (Print/Type)   | Allan Ratner  | Registration No. (Attorney/Agent)   | 19,717         |                   |               |                                   |        |           |   |      |                |      |              |       |    |         |     |           |                |  |  |     |                |
| Signature   |  | Date  | August 4, 2003 |                   |               |                                   |        |           |   |      |                |      |              |       |    |         |     |           |                |  |  |     |                |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Mail Stop Patent Application, P.O. Box 1450, Alexandria, VA 22313-1450.

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# FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 750

## Complete if Known

Application Number To Be Assigned  
Filing Date Herewith  
First Named Inventor H. Kanzawa et al.  
Examiner Name  
Art Unit  
Attorney Docket No. MTS-3455US

## METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit  
Account  
Number

18-0350

Deposit  
Account  
Name

RatnerPrestia

The Commissioner is authorized to: (check all that apply)

- ☐ Charge fee(s) indicated below  
☒ Credit any overpayments  
☒ Charge any additional fee(s) during the pendency of this application  
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

| Large Entity |          | Small Entity |          | Fee Description        | Fee Paid |
|--------------|----------|--------------|----------|------------------------|----------|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |                        |          |
| 1001         | 750      | 2001         | 375      | Utility filing fee     | 750      |
| 1002         | 330      | 2002         | 165      | Design filing fee      |          |
| 1003         | 520      | 2003         | 260      | Plant filing fee       |          |
| 1004         | 750      | 2004         | 375      | Reissue filing fee     |          |
| 1005         | 160      | 2005         | 80       | Provisional filing fee |          |

SUBTOTAL (1) (\$) 750

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| Total Claims       | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| 9                  | -20**        | 0              | 0        |
| Independent Claims | 1            | -3**           | 0        |
| Multiple Dependent |              |                | 0        |

| Large Entity |          | Small Entity |          | Fee Description  |
|--------------|----------|--------------|----------|--|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |  |
| 1202         | 18       | 2202         | 9        | Claims in excess of 20                                     |
| 1201         | 84       | 2201         | 42       | Independent claims in excess of 3                          |
| 1203         | 280      | 2203         | 140      | Multiple dependent claim, if not paid                      |
| 1204         | 84       | 2204         | 42       | ** Reissue independent claims over original patent         |
| 1205         | 18       | 2205         | 9        | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$) 0

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

| Large Entity |          | Small Entity |          | Fee Description  | Fee Paid |
|--------------|----------|--------------|----------|--|----------|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |  |          |
| 1051         | 130      | 2051         | 65       | Surcharge - late filing fee or oath  |          |
| 1052         | 50       | 2052         | 25       | Surcharge - late provisional filing fee or cover sheet.                    |          |
| 1053         | 130      | 1053         | 130      | Non-English specification  |          |
| 1812         | 2,520    | 1812         | 2,520    | For filing a request for ex parte reexamination                            |          |
| 1804         | 920*     | 1804         | 920*     | Requesting publication of SIR prior to Examiner action                     |          |
| 1805         | 1,840*   | 1805         | 1,840*   | Requesting publication of SIR after Examiner action                        |          |
| 1251         | 110      | 2251         | 55       | Extension for reply within first month                                     |          |
| 1252         | 410      | 2252         | 205      | Extension for reply within second month                                    |          |
| 1253         | 930      | 2253         | 465      | Extension for reply within third month                                     |          |
| 1254         | 1,450    | 2254         | 725      | Extension for reply within fourth month                                    |          |
| 1255         | 1,970    | 2255         | 985      | Extension for reply within fifth month                                     |          |
| 1401         | 320      | 2401         | 160      | Notice of Appeal   |          |
| 1402         | 320      | 2402         | 160      | Filing a brief in support of an appeal                                     |          |
| 1403         | 280      | 2403         | 140      | Request for oral hearing   |          |
| 1451         | 1,510    | 1451         | 1,510    | Petition to institute a public use proceeding                              |          |
| 1452         | 110      | 2452         | 55       | Petition to revive - unavoidable   |          |
| 1453         | 1,300    | 2453         | 650      | Petition to revive - unintentional   |          |
| 1501         | 1,300    | 2501         | 650      | Utility issue fee (or reissue)   |          |
| 1502         | 470      | 2502         | 235      | Design issue fee   |          |
| 1503         | 630      | 2503         | 315      | Plant issue fee  |          |
| 1460         | 130      | 1460         | 130      | Petitions to the Commissioner  |          |
| 1807         | 50       | 1807         | 50       | Processing fee under 37 CFR 1.17(q)  |          |
| 1806         | 180      | 1806         | 180      | Submission of Information Disclosure Stmt                                  |          |
| 8021         | 40       | 8021         | 40       | Recording each patent assignment per property (times number of properties) |          |
| 1809         | 750      | 2809         | 375      | Filing a submission after final rejection (37 CFR § 1.129(a))              |          |
| 1810         | 750      | 2810         | 375      | For each additional invention to be examined (37 CFR § 1.129(b))           |          |
| 1801         | 750      | 2801         | 375      | Request for Continued Examination (RCE)                                    |          |
| 1802         | 900      | 1802         | 900      | Request for expedited examination of a design application                  |          |

Other fee (specify)

\*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0

## SUBMITTED BY

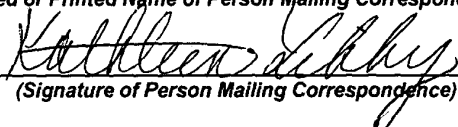
## Complete (if applicable)

Name (Print/Type) Allan Ratner Registration No. Attorney/Agent 19,717 Telephone (610) 407-0700  
Signature Date August 4, 2003

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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|  |                         |          |                                 |  |
|--|-------------------------|----------|---------------------------------|--|
| <b>CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)</b><br>Applicant(s): H. Kanzawa et al.   |                         |          | Docket No.<br><b>MTS-3455US</b> |  |
| Serial No.<br>To Be Assigned   | Filing Date<br>Herewith | Examiner | Group Art Unit                  |  |
| Invention: METHOD OF MANUFACTURING CIRCUIT BOARD AND COMMUNICATION APPLIANCE   |                         |          |                                 |  |
| <p>I hereby certify that the following correspondence:</p> <div style="border: 1px solid black; padding: 10px; min-height: 100px; margin: 10px 0;">         Utility Patent Application Transmittal and its enclosures       </div> <p style="text-align: center; font-size: small;">(Identify type of correspondence)</p> <p>Is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to:<br/>         Mail Stop Patent Application,<br/>         Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450<br/>         on August 4, 2003</p> <div style="text-align: right; margin-top: 20px;"> <div style="display: inline-block; text-align: left;"> <u>Kathleen Libby</u><br/> <small>(Typed or Printed Name of Person Mailing Correspondence)</small> </div> <div style="display: inline-block; text-align: left; margin-top: 10px;"> <br/> <small>(Signature of Person Mailing Correspondence)</small> </div> </div> <div style="text-align: right; margin-top: 20px;"> <u>EV 325926473 US</u><br/> <small>("Express Mail" Mailing Label Number)</small> </div> |                         |          |                                 |  |
| <p><b>Note: Each paper must have its own certificate of mailing.</b></p>   |                         |          |                                 |  |